

AMENDMENT

Listing of the Claims:

This listing of the claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A method of generating power via a gas turbine and a steam turbine in alternative exclusive modes which comprises:

A. operating in a first mode by:

a. supplying (i) coal bed methane, (ii) oxygen derived from an air separation plant with air supplied to the air separation plant being air from an air compressor of the gas turbine, and (iii) flue gas produced in the gas turbine wherein the flue gas is predominantly CO₂, all under pressure, to a combustor of the gas turbine and combusting the coal bed methane to generate first heated combustion products and using the first heated combustion products and the flue gas to drive the gas turbine, ~~wherein an air compressor of the gas turbine supplies air to the air separation plant;~~

b. supplying a hot flue gas stream produced in the gas turbine to a heat recovery steam generator and using the heat of the flue gas to generate steam by way of heat exchange with water supplied to the steam generator;

c. supplying steam from the steam generator to a steam turbine and using the steam to drive the steam turbine; and

d. compressing flue gas ~~supplying (i) a part of the flue gas stream from the gas turbine that passes through the heat recovery steam generator in a flue gas compression train and supplying (i) a part of the compressed flue gas stream~~ to the combustor of the gas turbine and (ii) the remainder of the compressed flue gas stream ~~from the gas turbine that passes through the heat recovery steam generator~~ to a suitable underground storage region; and

B. operating in a second mode by:

a. disconnecting the flue gas compression train and supplying coal bed methane and air from ~~an~~ the air compressor of the gas turbine, both under

pressure, to a combustor of the gas turbine and combusting the coal bed methane to generate second heated combustion products and a flue gas and using the second heated combustion products and the flue gas to drive the gas turbine;

b. supplying a hot flue gas stream produced in the gas turbine to a heat recovery steam generator and using the heat of the flue gas to generate steam by way of heat exchange with water supplied to the steam generator;

c. supplying steam from the steam generator to a steam turbine and using the steam to drive the steam turbine.

wherein when power is not generated using the first mode, power is generated using the second mode and wherein when power is not generated using the second mode, power is generated using the first mode.

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Original) The method defined in claim 1 wherein step (d) of operating mode (A) includes supplying the flue gas stream to the underground storage region as a liquid phase.

6. (Original) The method defined in claim 1 wherein the underground storage region is a coal bed seam.

7. (Original) The method defined in claim 6 wherein the underground storage region is the coal bed seam from which coal bed methane to power the gas turbine is extracted.

8. (Original) The method defined in claim 7 wherein step (d) includes supplying the flue gas stream to the underground storage region via existing well structures for extracting coal bed methane from the underground storage region.

9. (Original) The method defined in claim 1 wherein step (d) of operating mode (A) includes separating water from the flue gas.

10. (Cancelled)

11. (Currently Amended) The method defined in claim 40 ~~1~~ wherein step (d) of operating mode (A) further includes:

- i. compressing ~~another part of the~~ remainder of the compressed flue gas stream to a second, higher pressure;
- ii. cooling the second, higher pressurised flue gas stream from step (i) and forming a liquid phase; and
- iii. supplying the liquid phase to the underground storage region.

12. (Original) The method defined in claim 1 includes supplying air from the air compressor of the gas turbine and producing oxygen in the plant during operating mode A.

13. to 16. (Canceled)

17. (New) The method defined in claim 1 wherein the flue gas compression train is fitted on the same shaft as the gas turbine.

18. (New) The method defined in claim 17 wherein when the gas turbine and steam turbine are operating in the second mode, the flue gas compression train is rotationally isolated from the gas turbine.